**Volume Booster**

**Economical, 1:1 Ratio**

The Series VB Volume Booster is a one to one signal to output relay and an ideal solution to increasing valve stroke speed. A large input signal change to the booster delivers high volume for quick throttling control. Volume booster responds to the slightest changes in input signal, which in turn increases accuracy of the output of air pressure to the actuator. This booster receives the positioner’s signal output and supplies the proper air pressure to the actuator to reduce response and adjustment time. Available in aluminum or stainless steel.

### SPECIFICATIONS

- **Max Supply Pressure:** 145 psi (10 bar).
- **Max Signal/Output Pressure:** 101.5 psi (7 bar).
- **Signal Connection:** 1/4˝ NPT.
- **In/Output Pressure Ratio:** 1:1.
- **Temperature Limits:** -4 to 158°F (-20 to 70°C).
- **Linearity:** ±1% FS.
- **Construction:** Aluminum; SS (SS models only).
- **In/Output Connection:** See model chart.
- **Weight:** See model chart.

<table>
<thead>
<tr>
<th>Model</th>
<th>Cv</th>
<th>Weight</th>
<th>In/Out Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB-01</td>
<td>1.02</td>
<td>1.1 lb (0.5 kg)</td>
<td>1/4˝ NPT</td>
</tr>
<tr>
<td>VB-01SS</td>
<td>1.02</td>
<td>2.1 lb (1.3 kg)</td>
<td>1/4˝ NPT</td>
</tr>
<tr>
<td>VB-02</td>
<td>2.32</td>
<td>1.7 lb (0.76 kg)</td>
<td>1/2˝ NPT</td>
</tr>
<tr>
<td>VB-02SS</td>
<td>2.32</td>
<td>4.2 lb (1.9 kg)</td>
<td>1/2˝ NPT</td>
</tr>
<tr>
<td>VB-03</td>
<td>4.96</td>
<td>5.1 lb (2.3 kg)</td>
<td>3/4˝ NPT</td>
</tr>
<tr>
<td>VB-03SS</td>
<td>4.96</td>
<td>11 lb (5 kg)</td>
<td>3/4˝ NPT</td>
</tr>
</tbody>
</table>

### Model PI Pressure To Current Transducer

**Reliable, User-Oriented Performance**

The Model PI Pressure To Current Transducer converts a pneumatic input pressure to an accurately proportional output current with uncompromising accuracy and durability. The PI serves in high-density and panel-mounted applications. The rugged PI transducer offers a high density DIN rail adapters and space saving with easy plug-in installation.

### SPECIFICATIONS

- **Service:** Clean dry air filtered to 40 microns.
- **Input Signal:** 3 to 15 psig and 3 to 27 psig.
- **Input Capacitance:** 2-wire: 700 f, standard; Voltage: 5k f min.
- **Output:** 2-wire: 4 to 20 mA.
- **Linearity:** ±0.15% of span.
- **Hysteresis:** ±0.15% of span max.
- **Accuracy:** ±0.15% of span guaranteed; ±0.10% of span typical. Includes combined effects of linearity, hysteresis and repeatability errors.
- **Repeatability:** ±0.10% of span; ±0.03% of span typical.
- **Response Time:** 10 ms to 99% of step change.
- **Power Requirements:** 10 to 42 VDC.
- **Temperature Stability:** Span and Zero: ±0.007% of span per °F max. deviation from 77°F calibration.
- **Temperature Limits:** Operating: -40 to 167°F (-40 to 75°C); Storage: -60 to 185°F (-50 to 85°C).
- **Calibration Adjustments:** Non-interactive, multi-turn span and zero potentiometers with approximately ±10% of span adjustment range.
- **Connections:** Signal Air: 1/8˝ NPT female; Electrical Wiring: Miniature terminal block accepts solid or stranded wire up to 14 AWG.
- **Weight:** 0.5 lb (0.2 kg).

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI-1</td>
<td>3 to 15 psig (20 to 100 kPa)</td>
</tr>
<tr>
<td>PI-2</td>
<td>3 to 27 psig (20 to 180 kPa)</td>
</tr>
</tbody>
</table>

PI-C, Replacement DIN Rail Adapter